



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/766,765	01/28/2004	Frederick A. Ware	RBUS 1310-1	3680
38342	7590	10/17/2005	EXAMINER	
RAMBUS, INC. c/o HAYNES BEFFEL & WOLFELD LLP			TRAN, KHA1	
P.O. BOX 336			ART UNIT	
HALF MOON, CA 94019			PAPER NUMBER	
			2637	
DATE MAILED: 10/17/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/766,765	Applicant(s) WARE ET AL.	
	Examiner KHAI TRAN	Art Unit 2637	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) _____ is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 18-44 is/are allowed.
- 6) ☒ Claim(s) 1 is/are rejected.
- 7) ☒ Claim(s) 2-17 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>11 sheets</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 7/19/2004 containing the Carson's reference (US 2003/0026399) has not been considered because the Carson's reference had been cited on 1/28/2004.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Olafsson (U.S. Pat. 6,163,570).

Regarding claim 1, Olafsson discloses a method for calibrating a bidirectional communication channel as shown in Figure 2, including a transmitter 244 from a modem B for transmitting data on a first component and a receiver 215 for receiving data with a first parameter (a transmit power) on a second component; prior to determining the calibrated value of the calibration cycle, transmitting data using the transmitter 214 and receiving the data using the receiver on the first component with the second parameter set to the operation value (col. 5, lines 3-56).

Allowable Subject Matter

4. Claims 18-44 are allowed.

5. Claims 2-17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

6. The following is a statement of reasons for the indication of allowable subject matter: Olafsson fails to disclose transmitting the calibration pattern on the communication link using the transmitter on the first component, receiving the calibration pattern on the communication link using the receiver on the second component; re-coupling the data source to the transmitter on the first component and setting the first parameter to the operation value as recited in claims 2 and 18, transmitting the stored calibration pattern using the transmitter on the second component and receiving the data using the receiver on the first component with the second parameter set to the operation value; and analyzing the stored calibration pattern using logic at the first component and determining a calibrated value of said first parameter in response to said analyzing as recited in claim 31, the calibration cycle including iteratively adjusting the value other first edge parameter, transmitting a calibration pattern using the transmitter on the first component, receiving the calibration pattern using the receiver on the second component, and comparing the received calibration pattern with a stored calibration pattern, to determine an updated value for the first edge value; the calibration cycle also including iteratively adjusting the value of the second edge parameter, transmitting a calibration pattern using the transmitter on the first component, receiving the calibration pattern using the receiver on the second component, and comparing the received calibration pattern with a stored calibration

pattern, to determine an updated value for the second edge value; and as a result of the calibration cycle, determining a new operation value for the parameter based on the function of the updated values of the first and second edge parameters.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hampel et al (US 2005/0163202 A1) disclose a periodic calibration for communication channel by drift tracking.

Reidhead et al (US 2003/0149991 A1) disclose a switch router.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHAIR TRAN whose telephone number is (571) 272-3019. The examiner can normally be reached on 7:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JAY PATEL can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2637

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



KHAI TRAN
Primary Examiner
Art Unit 2637

KT
September 13, 2005